

FIG. 1

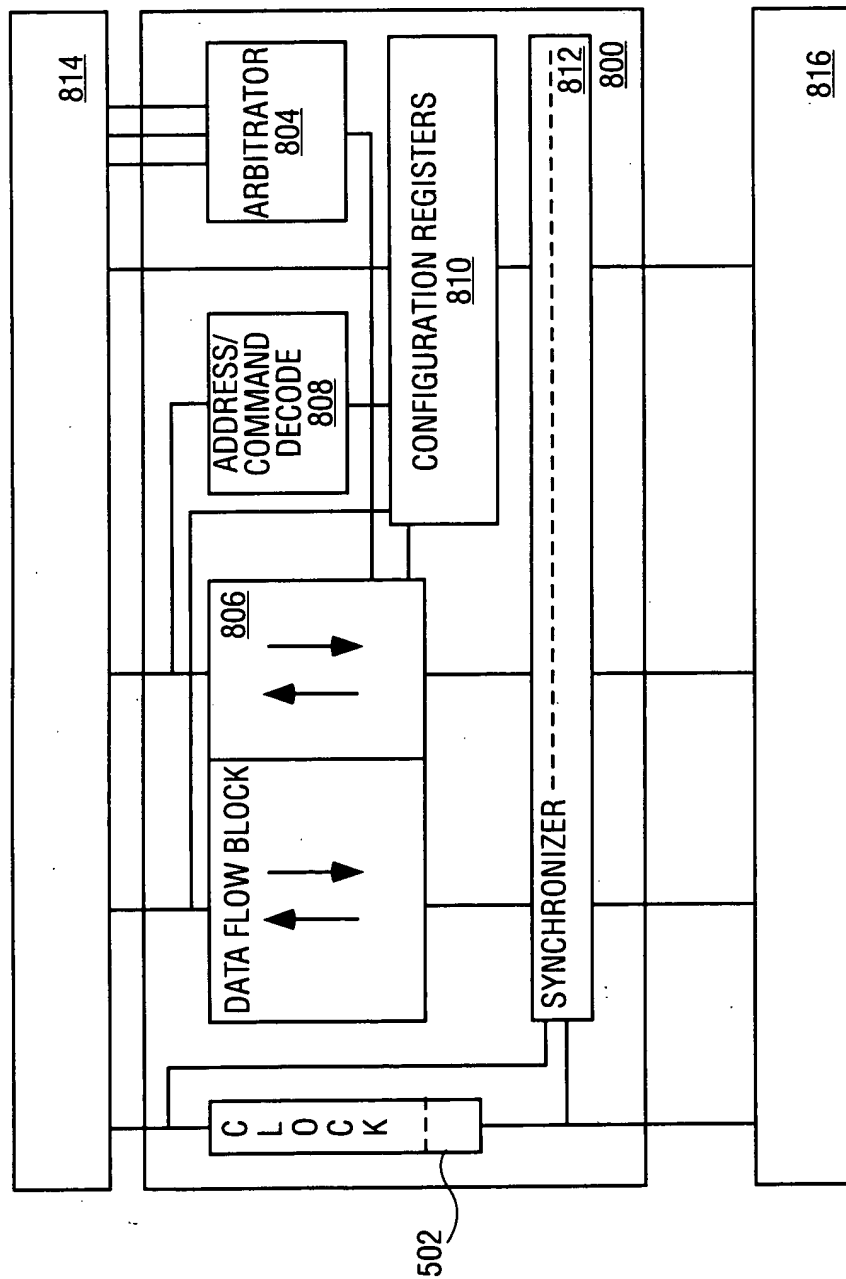


FIG. 2

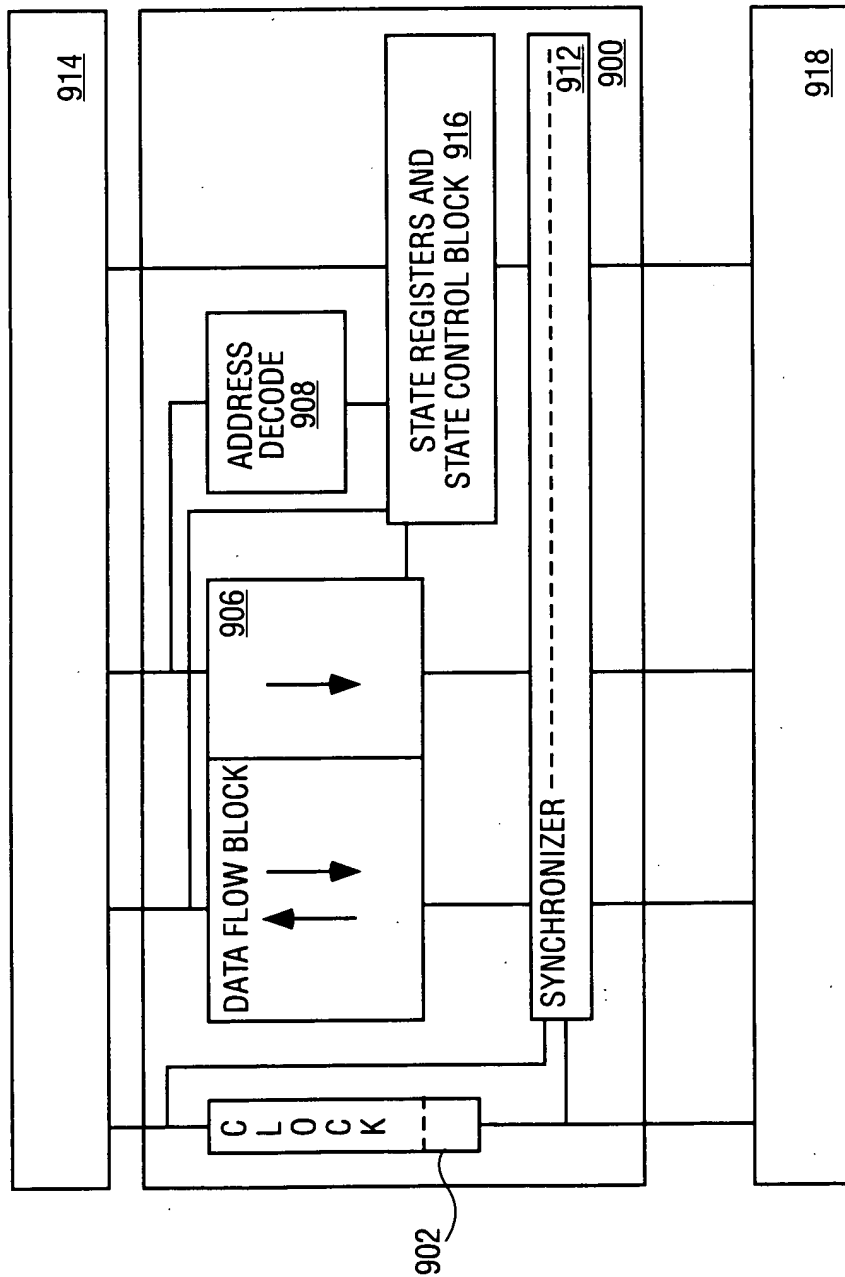


FIG. 3

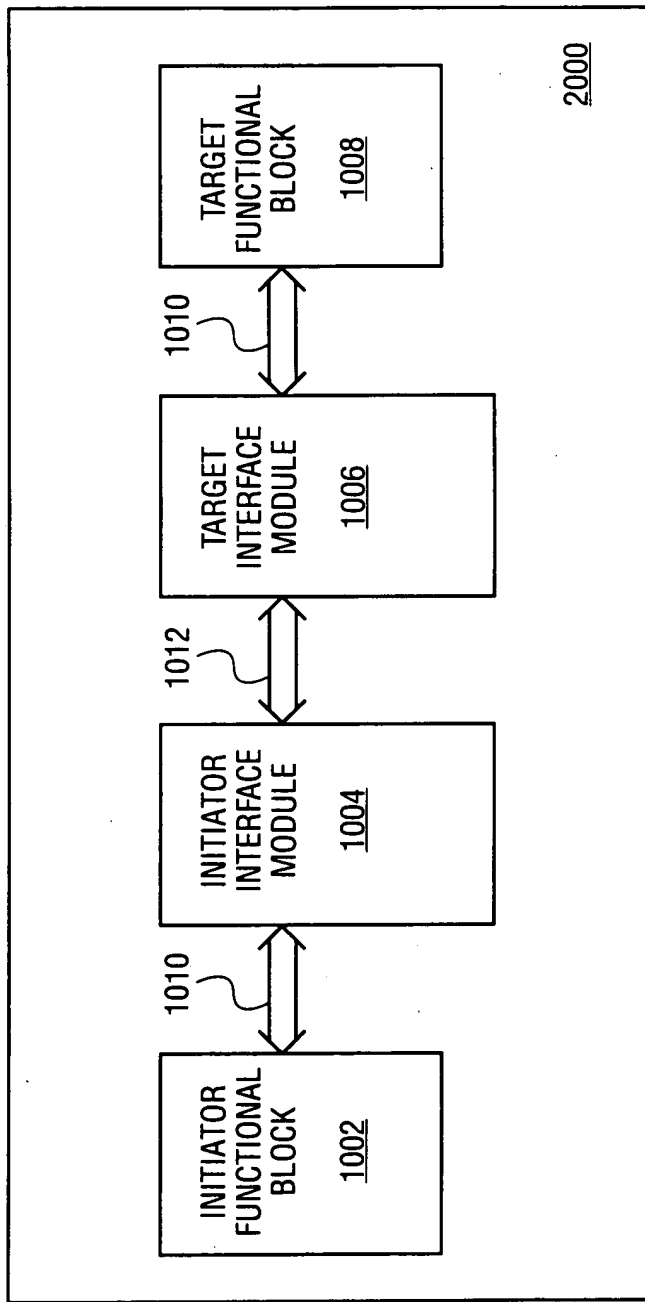


FIG. 4

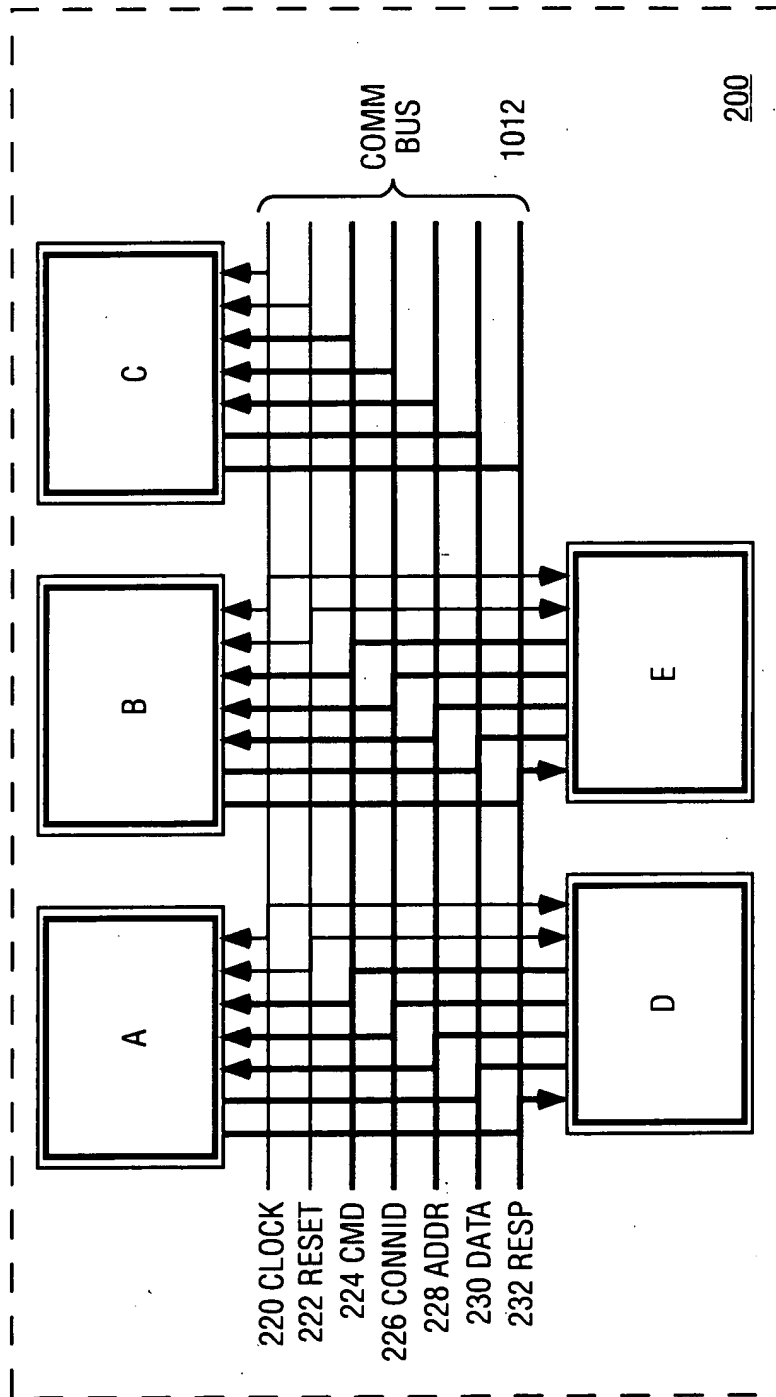


FIG. 5

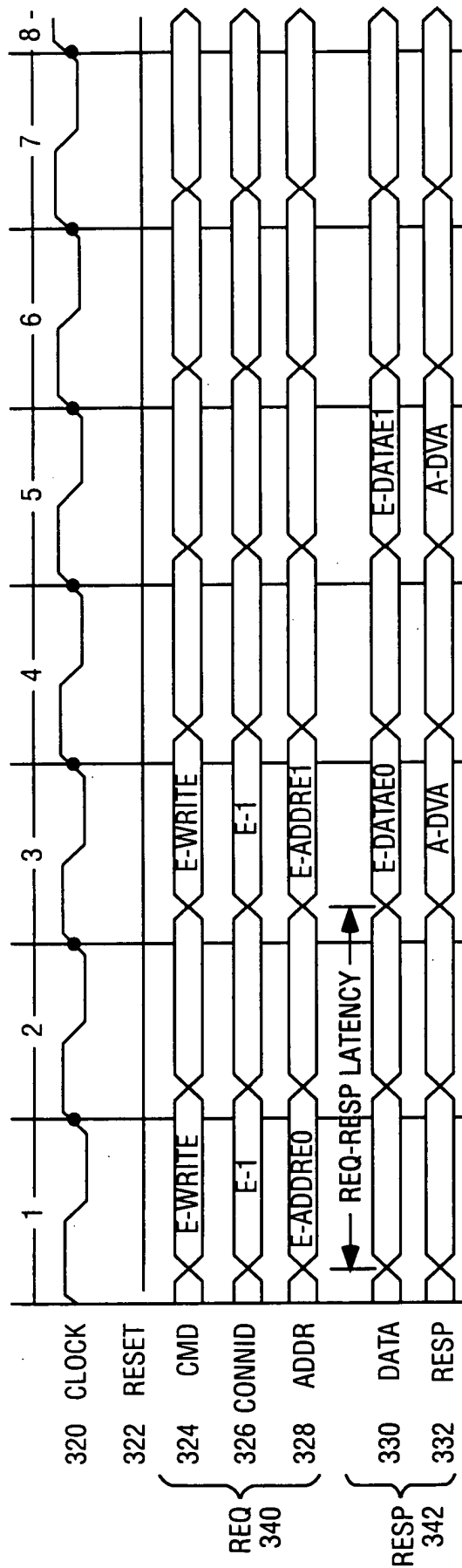


FIG. 6

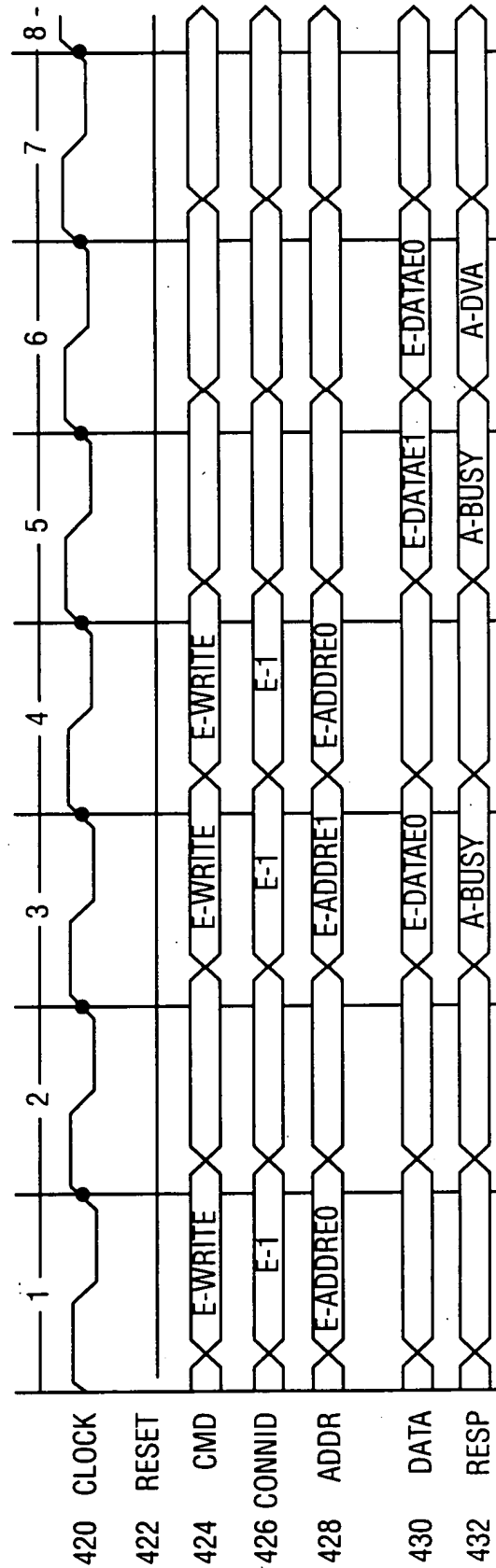


FIG. 7

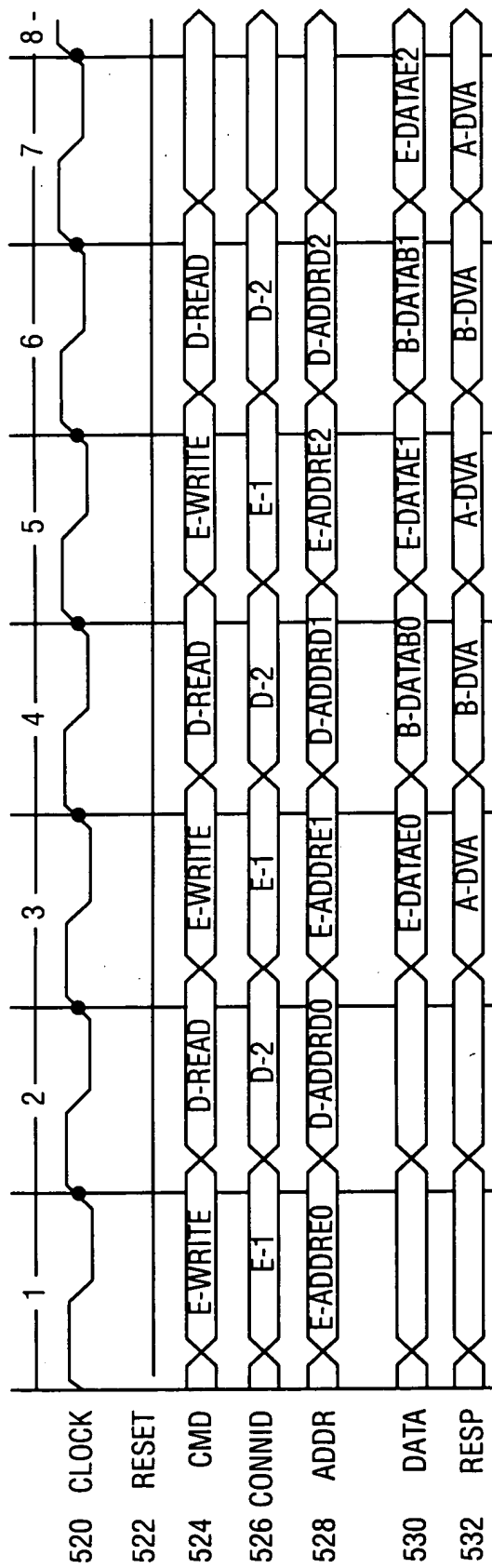


FIG. 8

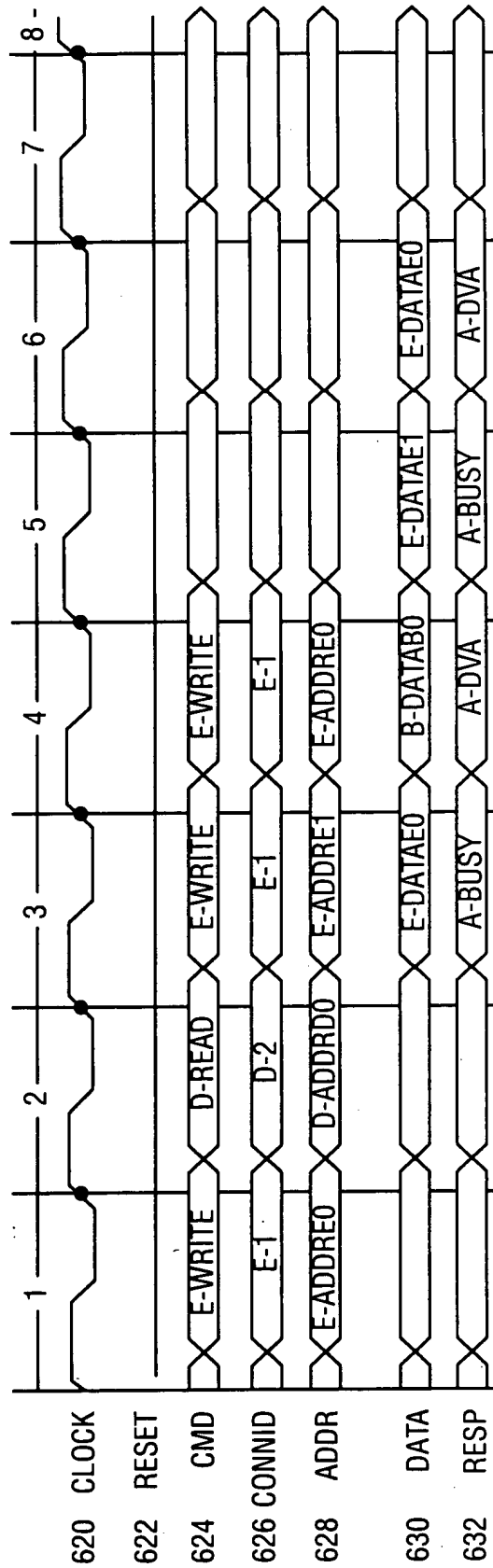


FIG. 9

FIG. 11

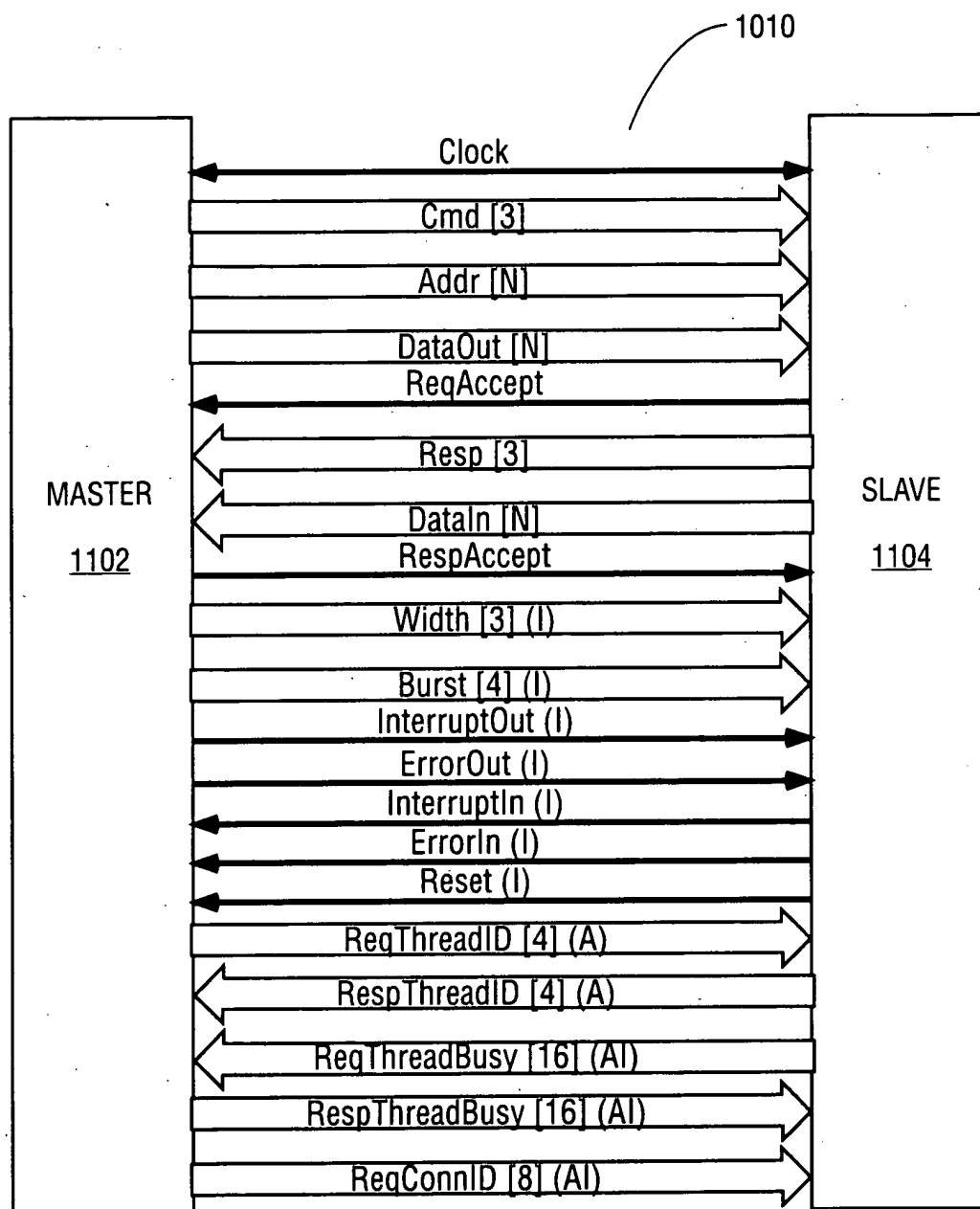
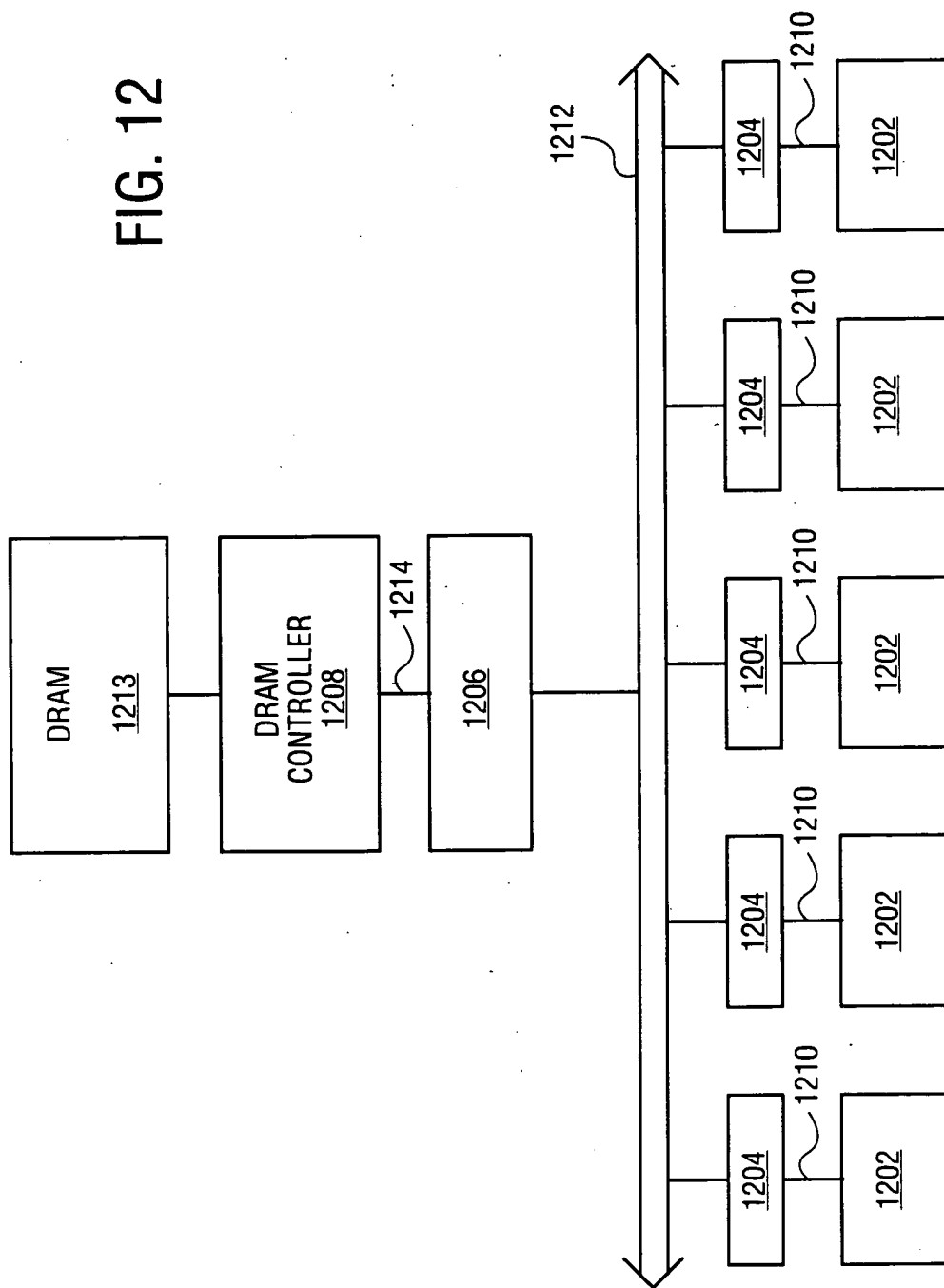


FIG. 11



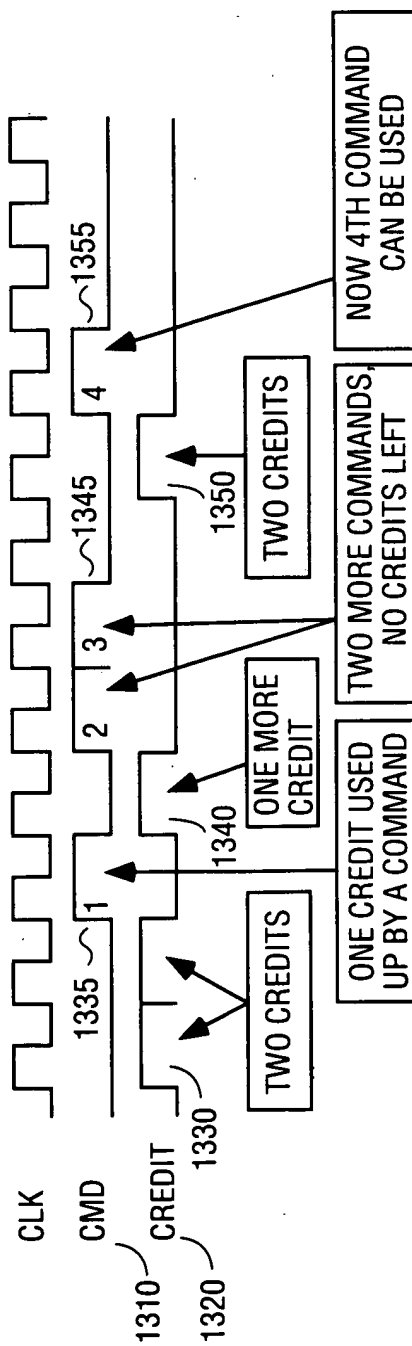


FIG. 13

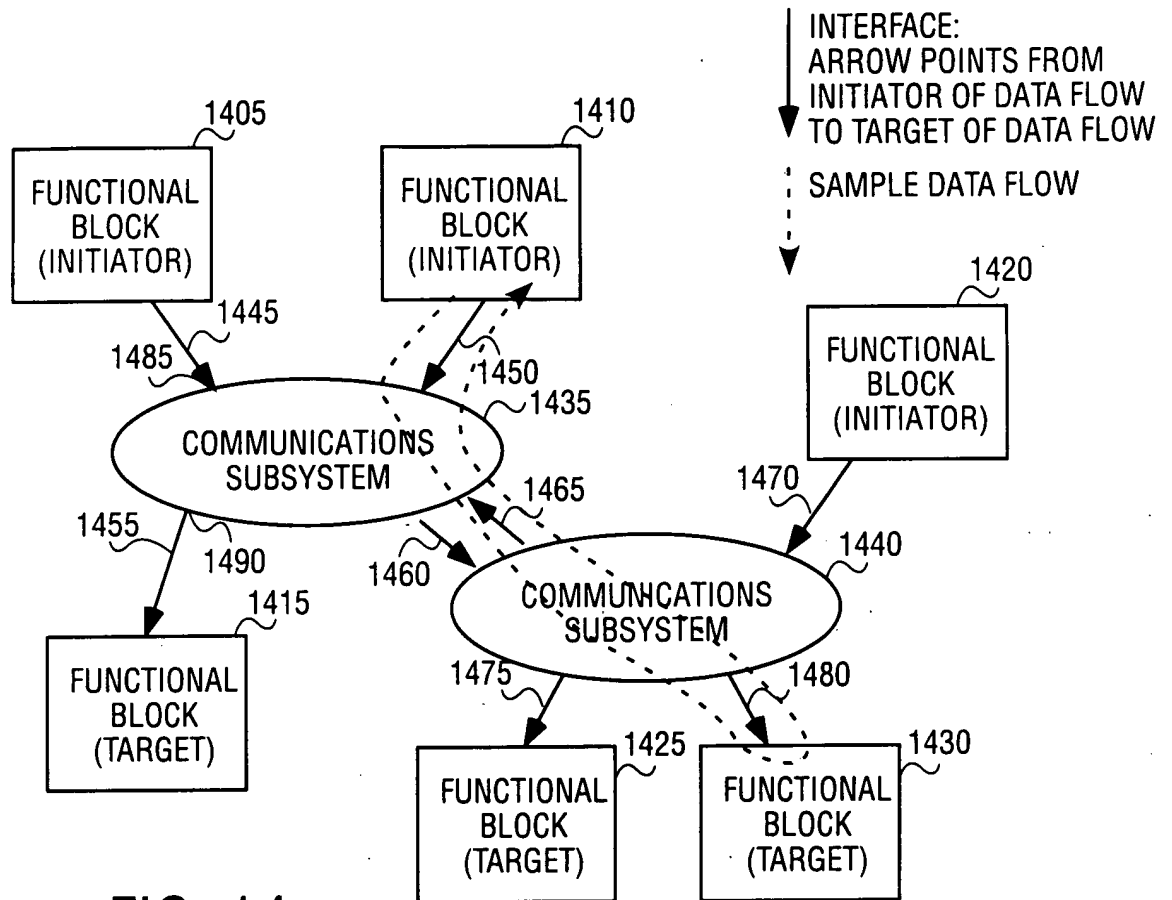


FIG. 14

MEMORY SYSTEM QUALITY OF SERVICE GUARANTEES FOR 8 BYTE READ OR WRITE REQUESTS

	CHANNEL 1	CHANNEL 2	CHANNEL 3
MINIMUM BANDWIDTH	10 M REQ/S	10 M REQ/S	10 M REQ/S
MAXIMUM LATENCY	100 NS	200 NS	200 NS

FIG. 15A

COMMUNICATION SUBSYSTEM QUALITY OF SERVICE GUARANTEES

	CHANNEL A (PORT X INCOMING CHANNEL 1 TO PORT Z OUTGOING CHANNEL 1)	CHANNEL B (PORT X INCOMING CHANNEL 2 TO PORT Z OUTGOING CHANNEL 2)	CHANNEL C (PORT Y INCOMING CHANNEL 1 TO PORT Z OUTGOING CHANNEL 3)
MINIMUM BANDWIDTH	(NONE)	4 BYTES IN 4 CYCLES	4 BYTES IN 2 CYCLES
MAXIMUM LATENCY	(NONE)	3 CYCLES EACH WAY	5 CYCLES EACH WAY

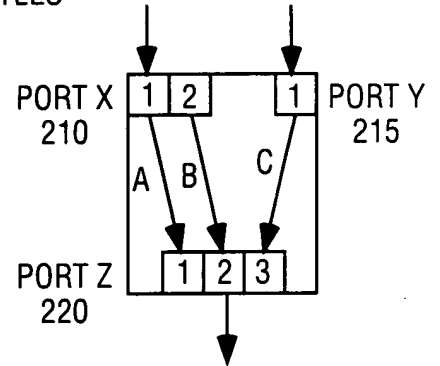


FIG. 15B

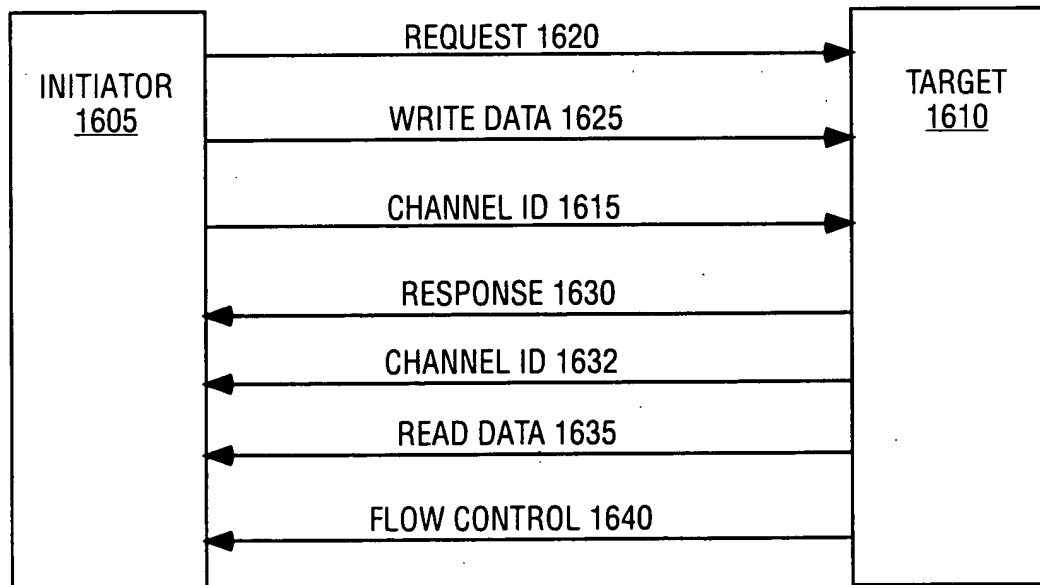


FIG. 16

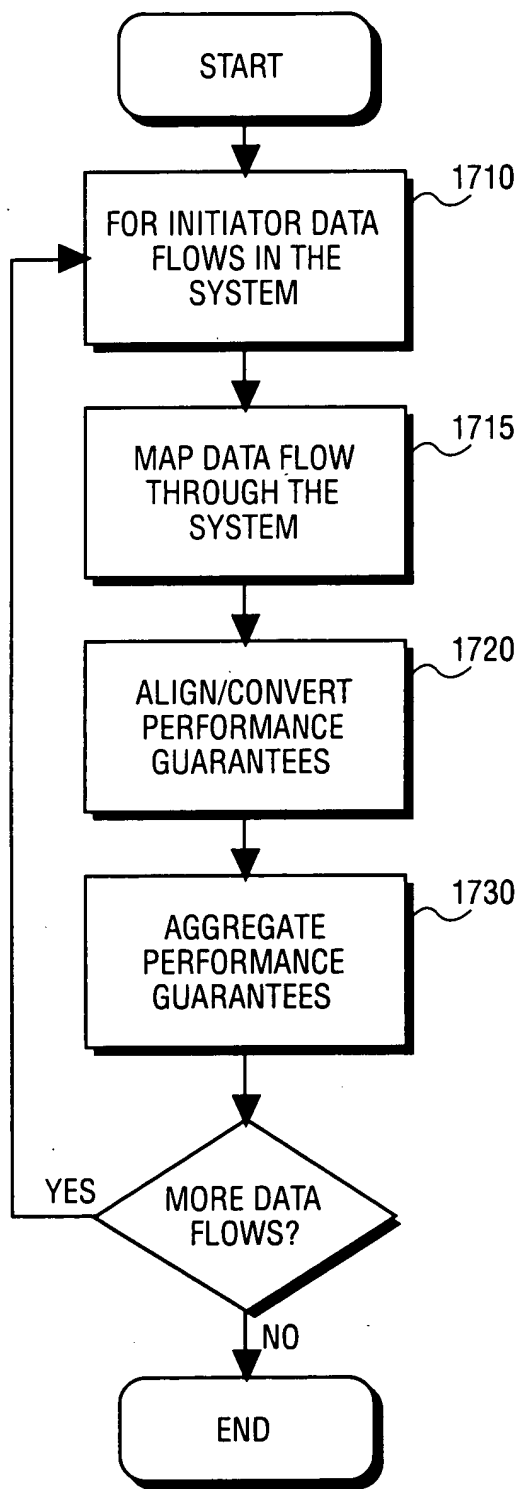


FIG. 17

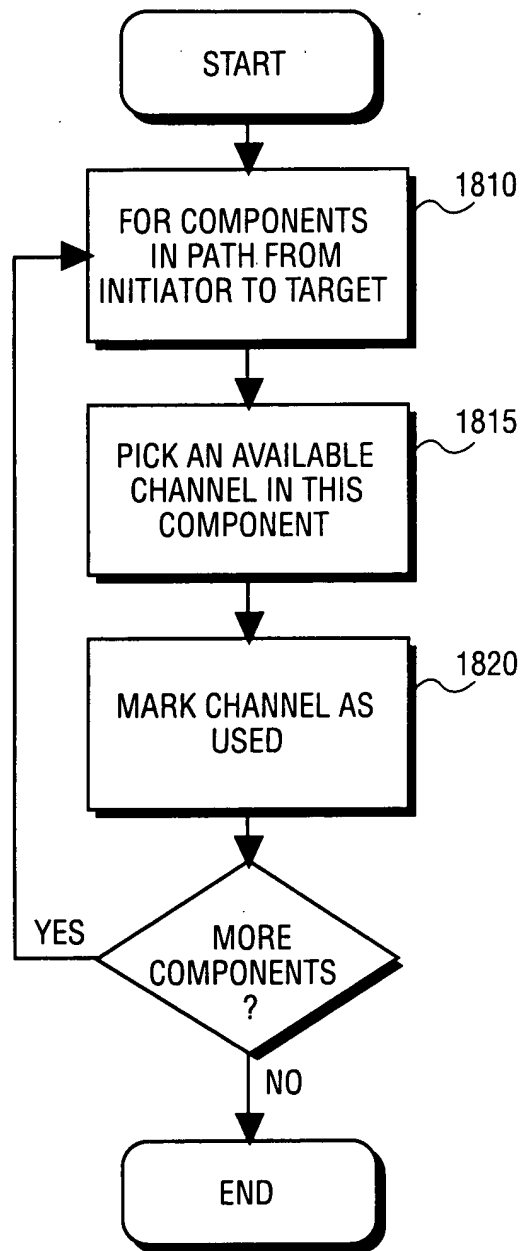


FIG. 18

FIG. 21

DATA FLOW MAPPING

INITIATOR A FLOW 1,
INTERFACE 1 CHANNEL A,
COMMUNICATION
SUBSYSTEM CHANNEL B,
INTERFACE 3 CHANNEL A,
TARGET C CHANNEL 1

INITIATOR A FLOW 2,
INTERFACE 1 CHANNEL B,
COMMUNICATION
SUBSYSTEM CHANNEL A,
INTERFACE 3 CHANNEL B,
TARGET C CHANNEL 3

INITIATOR B FLOW 1,
INTERFACE 2 CHANNEL A,
COMMUNICATION
SUBSYSTEM CHANNEL C,
INTERFACE 3 CHANNEL C,
TARGET C CHANNEL 2

QUALITY OF SERVICE GUARANTEES AFTER UNIT CONVERSION

		COMM. SUBSYSTEM (100 MHZ FREQ.)	MEMORY SYSTEM
INITIATOR A FLOW 1 (4 BYTE REQUESTS)	MAX BANDWIDTH MIN LATENCY	100 MBYTES/S 60 NS	40 MBYTES/S 100 NS
INITIATOR A FLOW 2 (16 BYTE REQUESTS)	MAX BANDWIDTH MIN LATENCY	(NONE) (NONE)	80 MBYTES/S 200 NS
INITIATOR B FLOW 1 (8 BYTE REQUESTS)	MAX BANDWIDTH MIN LATENCY	200 MBYTES/S 100 NS	80 MBYTES/S 200 NS

SYSTEM WIDE QUALITY OF SERVICE GUARANTEES

INITIATOR A FLOW 1 (4 BYTE REQUESTS)	MAX BANDWIDTH MIN LATENCY	40 MBYTES/S 160 NS
INITIATOR A FLOW 2 (16 BYTE REQUESTS)	MAX BANDWIDTH MIN LATENCY	(NONE) (NONE)
INITIATOR B FLOW 1 (8 BYTE REQUESTS)	MAX BANDWIDTH MIN LATENCY	80 MBYTES/S 300 NS

FIG. 21